

## **PORABLE AUDIO PLAYER WITH EXCHANGEABLE HARD DRIVE**

### **ABSTRACT**

An audio player with an exchangeable hard drive as storage device, which is used to play  
5 audio files, comprises a main body, a power supply, an exchangeable hard drive, and a main  
PCB. The main PCB is installed inside the main body and comprises a set of golden fingers,  
which connects to a set of pins of a drive PCB of the hard drive to communicate. The main  
PCB further comprises: a processing unit, which receives commands from the functional  
buttons via the receiver circuit, and accesses audio files in the hard drive through a buffer; a  
10 decoding unit, which receives audio files from the processing unit to decode; a D/A converter,  
which converts received decoded audio files from digital signals to analog signals; and an  
amplifier, which amplifies received analog signals and transfers to an output unit.